

Claims

Sub
a1

1. A control apparatus comprising a display part for displaying an output frequency and a frequency setting value, and a key group such as an operation mode selection key for selecting operation modes such as a monitor mode for displaying a run state or a setting mode for setting various data or a set key for determining a setting value, characterized in that there are provided a manual pulse generator for manually rotating a handle to generate a command pulse, pulse input means for measuring a pulse outputted from this manual pulse generator and calculating the amount of change in the pulse per unit time, and control panel control means for calculating the output frequency based on the amount of change in the pulse per unit time outputted from this pulse input means.

2. A control apparatus as defined in claim 1, characterized in that the control panel control means can perform setting operations when data is outputted from the pulse input means even in the case that the operation modes are a mode other than the setting mode.

3. A control apparatus as defined in claim 1, characterized in that the control panel control means is constructed so as to change a scaling factor of the amount of change in the frequency setting value to the amount of change in the pulse in response to the amount of change in the pulse per unit time.

4. A control apparatus as defined in claim 3, characterized

in that it is constructed so as to maintain the just previous scaling factor of the amount of change in the frequency setting value to the amount of change in the pulse for a constant period of time after stopping the operation of the manual pulse generator.

5. A control apparatus as defined in claim 1, characterized in that it is constructed so as to make a setting value set by operating the manual pulse generator valid after an input of the set key.